

## ABSTRACT

A power magnetic core has a start section (15) and a termination section (16). In the powder magnetic core, lines of magnetic force (20) are formed from the start section (15) to the termination section (16). The powder magnetic core comprises a first portion (17) disposed on the shortest magnetic path of the lines of magnetic force (20) that connects the start section (15) and the termination section (16) and having a permeability  $\mu_a$  and a second portion (18) disposed apart from the shortest magnetic path of the lines of magnetic force (20) and having a permeability  $\mu_b$  greater than  $\mu_a$ . With this constitution, a desired magnetic characteristic is achieved, and the iron loss is sufficiently reduced.